

SEARCH REQUEST FORM

Scientific and Technical Information Center

Lakshmi

Requester's Full Name: S. Channavajjala Examiner #: 74459 Date: 8/28/03
 Art Unit: _____ Phone Number 30 Serial Number: 101069220
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Cosmetic Compositi - - Neutralized Water Soluble - -

Inventors (please provide full names): Isabelle Rollat-Corvol organosilicon compds.
Henri Samain

Earliest Priority Filing Date: 9/2/99

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

1. Please perform a search on
organosilicon compds (as described in cl 1) +
a neutralizing agent (§ cl. 1)
2. Please perform a search for the organosilicon
compds (of 2 formulas) of cl. 5
with neutralizing agents of (cl. 1 +
and cl. 7).

thanks
S. Channavajjala

| STAFF USE ONLY | | Type of Search | Vendors and cost where applicable |
|------------------------------------|-----------------------------------|-----------------|-----------------------------------|
| Searcher: <u>Point of Contact:</u> | <u>Alexandra Waclawiw</u> | NA Sequence (#) | STN <u>\$ 248.00</u> |
| Searcher Phone # | <u>Technical Info. Specialist</u> | AA Sequence (#) | Dialog _____ |
| Searcher Location: | <u>GM1 6A02 Tel: 308-4491</u> | Structure (#) | Questel/Orbit _____ |
| Date Searcher Picked Up: | <u>9-4-03</u> | Bibliographic | Dr. Link _____ |
| Date Completed: | <u>9-4-03</u> | Litigation | Lexis/Nexis _____ |
| Searcher Prep & Review Time: | <u>16</u> | Fulltext | Sequence Systems _____ |
| Clerical Prep Time: | | Patent Family | WWW/Internet _____ |
| Online Time: | <u>42</u> | Other | Other (specify) _____ |

(FILE 'HCAPLUS' ENTERED AT 12:40:06 ON 04 SEP 2003)
DEL HIS Y

FILE 'REGISTRY' ENTERED AT 12:42:37 ON 04 SEP 2003
ACT CHANN/A

L1 STR
L2 6485 SEA FILE=REGISTRY SSS FUL L1

L3 E SULFURIC ACID/CN
1 S E3

FILE 'HCAPLUS' ENTERED AT 12:42:55 ON 04 SEP 2003
L4 16488 S L2
L5 113609 S L3 OR SULFURIC ACID#
L6 128 S L4 AND L5
L7 92856 S NEUTRAL?
L8 3 S L6 AND L7
L9 409259 S NEUTRAL?/AB
L10 5 S L6 AND L9
L11 5 S L10 OR L8
L12 81896 S SILOXANE
L13 475 S L12 AND L5
L14 68 S L13 AND 62/SX,SC
L15 2 S L14 AND (NEUTRAL? OR NEUTRAL?/AB)
L16 6 S L15 OR L11
L17 776 S L12 (L) (NONPOLYMER? OR NON POLYMER?)
L18 12 S L17 AND L5
L19 11 S L18 NOT L16
L20 0 S L19 AND 62/SX,SC

FILE 'REGISTRY' ENTERED AT 12:47:02 ON 04 SEP 2003

FILE 'HCAPLUS' ENTERED AT 12:47:17 ON 04 SEP 2003
L21 51 S L4 AND L17
L22 2 S L21 AND (NEUTRAL? OR L5)
L23 1 S L22 NOT (L16)

=>

=> fil reg
FILE 'REGISTRY' ENTERED AT 12:47:02 ON 04 SEP 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 2 SEP 2003 HIGHEST RN 577952-45-5
DICTIONARY FILE UPDATES: 2 SEP 2003 HIGHEST RN 577952-45-5

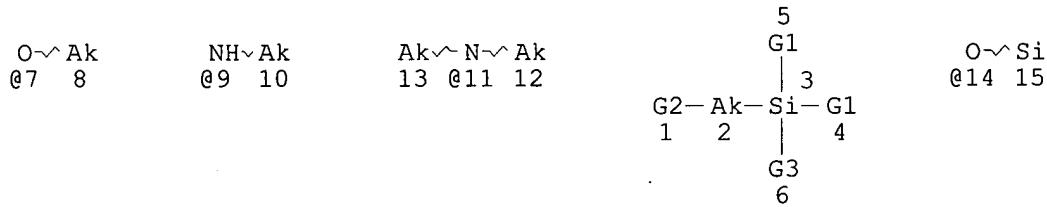
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d que stat 12
L1 STR



VAR G1=X/OH/7
VAR G2=NH2/9/11
VAR G3=X/OH/7/14

VAR G5=X/ON, 7/14
NODE ATTRIBUTES:

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ELEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE

STEREO ATTRIBUTES: NONE
1.2 6485 SEA FILE=REGISTRY SSS FILE: 1.1

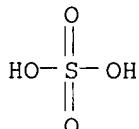
100.0% PROCESSED 164740 ITERATIONS
SEARCH TIME: 00 00 10

6485 ANSWERS

=> d que 13;d 13

L3. 1 SEA FILE=REGISTRY ABB=ON PLU=ON "SULFURIC ACID"/CN

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN
RN 7664-93-9 REGISTRY
CN **Sulfuric acid (8CI, 9CI)** (CA INDEX NAME)
OTHER NAMES:
CN BOV
CN Brimstone acid
CN Contact acid
CN Dihydrogen sulfate
CN Dipping acid
CN NSC 248648
CN NSC 38965
CN Oil of vitriol
CN Sulphuric acid
CN Vitriol brown oil
FS 3D CONCORD
DR 127529-01-5, 119540-51-1, 140623-70-7
MF H₂ O₄ S
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

88629 REFERENCES IN FILE CA (1937 TO DATE)
3998 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
88737 REFERENCES IN FILE CAPLUS (1937 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 12:47:17 ON 04 SEP 2003
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FILE COVERS 1907 - 4 Sep 2003 VOL 139 ISS 10
FILE LAST UPDATED: 2 Sep 2003 (20030902/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d his 14-

(FILE 'HCAPLUS' ENTERED AT 12:42:55 ON 04 SEP 2003)
L4 16488 S L2
L5 113609 S L3 OR SULFURIC ACID#
L6 128 S L4 AND L5
L7 92856 S NEUTRAL?
L8 3 S L6 AND L7
L9 409259 S NEUTRAL?/AB
L10 5 S L6 AND L9
L11 5 S L10 OR L8
L12 81896 S SILOXANE
L13 475 S L12 AND L5
L14 68 S L13 AND 62/SX,SC
L15 2 S L14 AND (NEUTRAL? OR NEUTRAL?/AB)
L16 6 S L15 OR L11
L17 776 S L12 (L) (NONPOLYMER? OR NON POLYMER?)
L18 12 S L17 AND L5
L19 11 S L18 NOT L16
L20 0 S L19 AND 62/SX,SC 62 = cosmetics

FILE 'REGISTRY' ENTERED AT 12:47:02 ON 04 SEP 2003

FILE 'HCAPLUS' ENTERED AT 12:47:17 ON 04 SEP 2003

=> d .ca hitstr 116 1-6

L16 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 2001:167779 HCAPLUS
DOCUMENT NUMBER: 134:197858
TITLE: Cosmetic composition based on hardly or
non-polymerized, water soluble and partly
neutralized silicon organic compounds
INVENTOR(S): Rollat-Corvol, Isabelle; Samain, Henri
PATENT ASSIGNEE(S): L'Oreal, Fr.
SOURCE: PCT Int. Appl., 20 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|----------|
| WO 2001015661 | A1 | 20010308 | WO 2000-FR2416 | 20000901 |
| W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, | | | | |

CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
 IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
 MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
 SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 FR 2798063 A1 20010309 FR 1999-11025 19990902
 EP 1207842 A1 20020529 EP 2000-960772 20000901
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 JP 2003508417 T2 20030304 JP 2001-519875 20000901
 PRIORITY APPLN. INFO.: FR 1999-11025 A 19990902
 WO 2000-FR2416 W 20000901

OTHER SOURCE(S): MARPAT 134:197858

AB The invention concerns a compn. comprising, in a cosmetically acceptable aq. medium, at least 0.05 wt.% relative to the compn. total wt., one or several water sol. org. silicon compds., having one, two or three silicon atoms, at least a basic chem. function and at least two hydroxyl groups or capable of being hydrolyzed per mol., said org. silicon compds. being partly **neutralized** by a **neutralizing** agent, selected among sulfuric acid, sulfuric acid salts and mixts. thereof. The invention is applicable to hairstyling compns. An aq. soln. contained aminopropyltriethoxysilane 12 and sulfuric acid q.s. to **neutralize** silane and water q.s. 100 g. The soln. was applied on hair and dried to obtain a homogeneous, transparent, flexible, non-brittle film.

IC ICM A61K007-06
 ICS A61K007-48

CC 62-3 (Essential Oils and Cosmetics)

ST hair prepns **neutralized** silicon **sulfuric acid**

IT **Siloxanes** (nonpolymeric)

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT Polysiloxanes, biological studies

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(di-Me, amino-contg.; cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT Hair preparations

(permanent wave; cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT 919-30-2, Aminopropyltriethoxysilane

RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT 7664-93-9, **Sulfuric acid**, reactions

7664-93-9D, **Sulfuric acid**, alkali salts,

reactions 7783-20-2, Ammonium sulfate, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

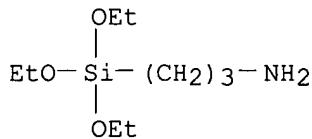
(cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

IT 919-30-2, Aminopropyltriethoxysilane

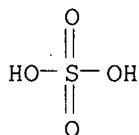
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic compn. based on hardly or non-polymd., water sol. and partly **neutralized** silicon org. compds.)

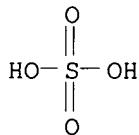
RN 919-30-2 HCPLUS
 CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



IT 7664-93-9, Sulfuric acid,, reactions
 7664-93-9D, Sulfuric acid, alkali salts,
 reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (cosmetic compn. based on hardly or non-polymd., water sol. and partly
 neutralized silicon org. compds.)
 RN 7664-93-9 HCPLUS
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



RN 7664-93-9 HCPLUS
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1996:73522 HCPLUS
 DOCUMENT NUMBER: 124:118270
 TITLE: Manufacture of silicate resins
 INVENTOR(S): Kimura, Tsuneo; Kozai, Toshuki
 PATENT ASSIGNEE(S): Shinetsu Chem Ind Co, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| JP 07286043 | A2 | 19951031 | JP 1994-102353 | 19940415 |
| JP 2914868 | B2 | 19990705 | | |
| PRIORITY APPLN. INFO.: | | | JP 1994-102353 | 19940415 |

AB Alkyl silicates with SiO₂ and/or their partially hydrolysis compds., organosiloxanes with (R₁)_aSiO(4-a)/2 (R₁ = H, (substituted) monovalent hydrocarbons; a = 1-3), and .gtoreq.1 acid catalyst selected from sulfonic acid compds. and phosphonitrilic chloride are treated in the presence of water, the catalysts are **neutralized**, and the product is treated with organosiloxanes (R₁)_b(R₂)_cSiX(4-b-c) (R₁, R₂ = monovalent reactive org. groups; X = alkoxy, OH; b = 0-2, c = 1-3, 1.ltoreq.b + c.ltoreq.3) to give title polymers with SiO₂ and reactive org. groups, useful for adhesives, coatings, etc. Thus, hexamethyldisiloxane 162.4, Et silicate 40 150.0, 98%-sulfuric acid 2, and water 36 g were mixed, **neutralized**, and treated with 179 g .gamma.-aminopropyltrimethoxysilane for 6 h to give a silicate resin contg. amino groups.

IC ICM C08G077-06

CC 35-2 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 37, 38

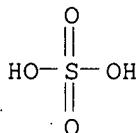
IT 104-15-4, p-Toluenesulfonic acid, uses **7664-93-9**,
Sulfuric acid, uses
RL: CAT (Catalyst use); USES (Uses)
(manuf. of silicate resins with reactive org. groups prep'd. from alkyl silicates, acid catalysts, and water)

IT 107-46-0DP, Hexamethyldisiloxane, reaction products with alkyl silicates
681-84-5DP, Tetramethoxysilane, reaction products with organopolysiloxanes
2530-83-8DP, .gamma.-Glycidoxypropyltrimethoxysilane, reaction products with alkyl silicates 2627-95-4DP, 1,3-Divinyl-1,1,3,3-tetramethyldisiloxane, reaction products with alkyl silicates
4369-14-6DP, (Acryloyloxy)propyltrimethoxysilane, reaction products with alkyl silicates 4420-74-0DP, .gamma.-Mercaptopropyltrimethoxysilane, reaction products with alkyl silicates 11099-06-2DP, Ethyl silicate 40, reaction products with organopolysiloxanes **13822-56-5DP**, .gamma.-Aminopropyltrimethoxysilane, reaction products with alkyl silicates
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(manuf. of silicate resins with reactive org. groups prep'd. from alkyl silicates, acid catalysts, and water)

IT **7664-93-9, Sulfuric acid**, uses
RL: CAT (Catalyst use); USES (Uses)
(manuf. of silicate resins with reactive org. groups prep'd. from alkyl silicates, acid catalysts, and water)

RN 7664-93-9 HCAPLUS

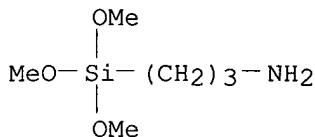
CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



IT **13822-56-5DP**, .gamma.-Aminopropyltrimethoxysilane, reaction products with alkyl silicates
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(manuf. of silicate resins with reactive org. groups prep'd. from alkyl silicates, acid catalysts, and water)

RN 13822-56-5 HCAPLUS

CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



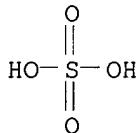
L16 ANSWER 3 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1992:66929 HCPLUS
 DOCUMENT NUMBER: 116:66929
 TITLE: Cosmetic sunscreen composition
 INVENTOR(S): Nicoll, Gregg Alan; Ojo-Osagie, Ann Camilla; Pereira, Mavis Claire
 PATENT ASSIGNEE(S): Unilever PLC, UK; Unilever N. V.
 SOURCE: Eur. Pat. Appl., 16 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| EP 456459 | A2 | 19911113 | EP 1991-304099 | 19910507 |
| EP 456459 | A3 | 19920108 | | |
| EP 456459 | B1 | 19940323 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE | | | | |
| CA 2041917 | AA | 19911111 | CA 1991-2041917 | 19910507 |
| AU 9176406 | A1 | 19911114 | AU 1991-76406 | 19910507 |
| AU 636483 | B2 | 19930429 | | |
| IN 172888 | A | 19931225 | IN 1991-BO127 | 19910507 |
| AT 103170 | E | 19940415 | AT 1991-304099 | 19910507 |
| ES 2062683 | T3 | 19941216 | ES 1991-304099 | 19910507 |
| GB 2243780 | A1 | 19911113 | GB 1991-10187 | 19910510 |
| GB 2243780 | B2 | 19940525 | | |
| JP 04226906 | A2 | 19920817 | JP 1991-106019 | 19910510 |
| JP 07045375 | B4 | 19950517 | | |
| ZA 9103552 | A | 19930127 | ZA 1991-3552 | 19910510 |
| US 5196187 | A | 19930323 | US 1991-698412 | 19910510 |
| PRIORITY APPLN. INFO.: | | | GB 1990-10525 | 19900510 |
| | | | EP 1991-304099 | 19910507 |

AB A water-in-silicone oil emulsion, suitable for topical application to skin or hair, comprises a volatile polydimethylsiloxane 1-50, a silicone surfactant 0.1-25, a C3-28 2-hydroxyalkanoic acid or salt or soap 0.1-10, ultrafine TiO₂ (1-100 nm av. particle size) 1-10, an inorg. electrolyte 0.001-10 wt.%, and water. The compn. provides enhanced protection from the damaging effects of sunlight or adverse climate conditions, is exceptionally stable, and retains superior sensory attributes. A fluid cream with an SPF (sun protection factor) of 12.6 contained volatile siloxane (DC 345) 8.20, silicone surfactant (DC 3225C) 12.00, petroleum jelly 0.50, mineral oil 1.50, Parsol MCX (octyl methoxycinnamate) 3.00, ultrafine TiO₂ (oil-dispersible) 2.00, NaCl 2.00, butylene glycol 10.00, L-proline 0.10, 2-hydroxyoctanoic acid 1.00, 2-hydroxypropanoic acid 5.00 wt./wt.%, and **neutralizing** agent, preservative, perfume, water q.s.

IC ICM A61K007-48

ICS A61K007-06; A61K007-00
 CC 62-4 (Essential Oils and Cosmetics)
 IT Siloxanes and Silicones, biological studies
 RL: BIOL (Biological study)
 (surfactants, water-in-oil emulsion contg.)
 IT Polyoxyalkylenes, biological studies
 RL: BIOL (Biological study)
 (di-Me siloxane-, water-in-silicone oil emulsion sunscreen
 contg.)
 IT Siloxanes and Silicones, biological studies
 RL: BIOL (Biological study)
 (di-Me, polyoxyalkylene-, water-in-silicone oil emulsion sunscreen
 contg.)
 IT 50-21-5, biological studies 57-55-6, Propane-1,2-diol, biological
 studies 110-63-4, Butane-1,4-diol, biological studies 147-85-3,
 L-Proline, biological studies 463-79-6D, Carbonic acid, alkali metal
 salts 504-63-2, Propane-1,3-diol 506-87-6 513-85-9, Butane-2,3-diol
 541-02-6 556-67-2 617-73-2 1314-13-2, Zinc oxide, biological studies
 1332-37-2, Iron oxide, biological studies 5466-77-3 7631-86-9, Silica,
 biological studies 7647-14-5, Sodium chloride, biological studies
7664-93-9D, Sulfuric acid, alkali metal salts
 7783-20-2, **Sulfuric acid** diammonium salt, biological
 studies 13463-67-7, Titanium dioxide, biological studies
 RL: BIOL (Biological study)
 (water-in-silicone oil emulsion sunscreen contg.)
 IT **7664-93-9D, Sulfuric acid, alkali metal salts**
 RL: BIOL (Biological study)
 (water-in-silicone oil emulsion sunscreen contg.)
 RN 7664-93-9 HCAPLUS
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN.
 ACCESSION NUMBER: 1991:170003 HCAPLUS
 DOCUMENT NUMBER: 114:170003
 TITLE: Manufacture of phenol-formaldehyde binders for
 moisture-resistant inorganic fibrous insulating
 materials
 INVENTOR(S): Sachse, Ursula; Schindler, Hans Thomas; Winkler, Rolf;
 Hennersdorf, Reinert; Schlieter, Lutz; Brueckner,
 Volker; Reineke, Karin; Gessner, Bernd; Wedekind,
 Karin
 PATENT ASSIGNEE(S): VEB Elguwa Leipzig, Ger. Dem. Rep.
 SOURCE: Ger. (East), 3 pp.
 CODEN: GEXXA8
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

DD 285502 A7 19901219 DD 1988-324158 19881228
 PRIORITY APPLN. INFO.: DD 1988-324158 19881228

AB In the title process, in which PhOH is reacted with H₂CO in mol. ratio 1:(2-3.5) at .1toreq.338 K in the presence of a catalyst for an H₂CO conversion of .gtoreq.60%, after which the mixt. is cooled to .apprx.308 K, and, before use, mixed with .1toreq.0.2% (based on solids content of the resin) silane as a crosslinking agent, NaOH is used as a condensation catalyst in amts. of .1toreq.1 wt.%, and, before use, the resin is mixed with an aq. soln. of H₂SO₄ and (NH₄)₂SO₄, or H₂SO₄, contg. 105-2000% of the amt. needed to **neutralize** the catalyst, and a pH of 5.8-6.2, preferably 5.9-6.1, is obtained. These resols are esp. suitable for bonding mineral wool or glass fibers. Mineral wool-based thermal insulators manufd. with a binder prep'd. with NaOH, (NH₄)₂SO₄, H₂SO₄, and .gamma.-aminopropyltrimethoxysilane, had residual bending strength 74% after storage at 313 K and relative humidity 95% for 28 days.

IC ICM C08G008-10
 ICS C08L061-06; C04B026-12

CC 57-6 (Ceramics)
 Section cross-reference(s): 37

ST fibrous thermal insulator binder; mineral wool thermal insulator binder; phenol formaldehyde resol binder; ammonium sulfate resol; **sulfuric acid** resol; sodium hydroxide catalyst resol

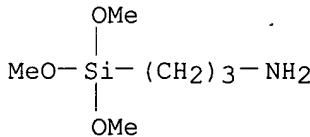
IT 13822-56-5, .gamma.-Aminopropyltrimethoxysilane
 RL: USES (Uses)
 (adhesion-promoting agent, for resol binders, in moisture-resistant fibrous thermal insulator manuf.)

IT 7664-93-9P, **Sulfuric acid**, uses and miscellaneous
 RL: PREP (Preparation); USES (Uses)
 (**neutralization** with, of sodium hydroxide condensation catalyst, in phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

IT 7783-20-2, Ammonium sulfate, uses and miscellaneous
 RL: USES (Uses)
 (**sulfuric acid** contg., **neutralization** with, of sodium hydroxide condensation catalyst, in phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

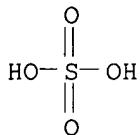
IT 13822-56-5, .gamma.-Aminopropyltrimethoxysilane
 RL: USES (Uses)
 (adhesion-promoting agent, for resol binders, in moisture-resistant fibrous thermal insulator manuf.)

RN 13822-56-5 HCPLUS
 CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



IT 7664-93-9P, **Sulfuric acid**, uses and miscellaneous
 RL: PREP (Preparation); USES (Uses)
 (**neutralization** with, of sodium hydroxide condensation catalyst, in phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

RN 7664-93-9 HCPLUS
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 5 OF 6 HCPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 1991:170002 HCPLUS
 DOCUMENT NUMBER: 114:170002
 TITLE: Preparation of modified phenol-formaldehyde binders
 for the manufacture of moisture-resistant inorganic
 fibrous insulating materials
 INVENTOR(S): Sachse, Ursula; Schindler, Hans Thomas; Winkler, Rolf;
 Hennersdorf, Reinert; Schlieter, Lutz; Brueckner,
 Volker; Reineke, Karin; Schlotzhauer, Hans Juergen;
 Wedekind, Karin
 PATENT ASSIGNEE(S): VEB Elguwa Leipzig, Ger. Dem. Rep.
 SOURCE: Ger. (East), 4 pp.
 CODEN: GEXXA8
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|---|----------|-----------------|----------|
| DD 285503 | A7 | 19901219 | DD 1988-324159 | 19881228 |
| PRIORITY APPLN. INFO.: | | | DD 1988-324159 | 19881228 |
| AB In the title process, in which PhOH is reacted with H ₂ CO in mol. ratio 1:(2-3.5) at .ltoreq.338 K in the presence of a catalyst for an H ₂ CO conversion ratio of .gtoreq.60\% , after which the mixt. is modified at .ltoreq.303 K with .ltoreq.20 wt.\% urea and, before use, mixed with .ltoreq.0.2\% (based on solids content of the resin) silane as a crosslinking agent, NaOH is used as a condensation catalyst in amts. of .ltoreq.1 wt.\% , and, before use, the resin is mixed with an aq. soln. of H ₂ SO ₄ and (NH ₄) ₂ SO ₄ , or H ₂ SO ₄ , contg. 102-200% of the amt. needed to neutralize the catalyst, and a pH of 6.8-7.6, preferably 7.0-7.2, is obtained. These resols are esp. suitable for bonding mineral wool or glass fibers. Mineral wool-based thermal insulators manufd. with a binder prep'd. with urea, NaOH, (NH ₄) ₂ SO ₄ , H ₂ SO ₄ , and $\text{.gamma.-aminopropyltrimethoxysilane}$, had residual bending strength 72.5% after storage at 313 K and relative humidity 95% for 28 days. | | | | |
| IC | ICM C08G008-28 | | | |
| CC | ICS C04B026-12; C08L061-06; C08G014-08 | | | |
| CC | 57-6 (Ceramics) | | | |
| ST | Section cross-reference(s): 37 | | | |
| ST | fibrous thermal insulator binder; mineral wool thermal insulator binder; phenol formaldehyde urea resol binder; ammonium sulfate resol; sulfuric acid resol; sodium hydroxide catalyst resol | | | |
| IT | 13822-56-5 , $\text{.gamma.-Aminopropyltrimethoxysilane}$ | | | |
| IT | RL: MOA (Modifier or additive use); USES (Uses) (crosslinking agent, for resols, in moisture-resistant fibrous thermal insulator manuf.) | | | |
| IT | 7664-93-9P , Sulfuric acid , uses and miscellaneous | | | |
| IT | RL: PREP (Preparation); USES (Uses) | | | |

(neutralization with, of sodium hydroxide condensation catalyst, in urea-phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

IT 7783-20-2, Ammonium sulfate, uses and miscellaneous

RL: USES (Uses)

(sulfuric acid contg., neutralization with, of sodium hydroxide condensation catalyst, in urea-phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

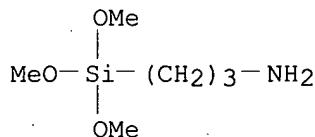
IT 13822-56-5, .gamma.-Aminopropyltrimethoxysilane

RL: MOA (Modifier or additive use); USES (Uses)

(crosslinking agent, for resols, in moisture-resistant fibrous thermal insulator manuf.)

RN 13822-56-5 HCAPLUS

CN 1-Propanamine, 3-(trimethoxysilyl)- (9CI) (CA INDEX NAME)



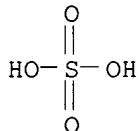
IT 7664-93-9P, Sulfuric acid, uses and miscellaneous

RL: PREP (Preparation); USES (Uses)

(neutralization with, of sodium hydroxide condensation catalyst, in urea-phenol-formaldehyde resol binder manuf., for moisture-resistant fibrous thermal insulators)

RN 7664-93-9 HCAPLUS

CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



L16 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1966:428190 HCAPLUS

DOCUMENT NUMBER: 65:28190

ORIGINAL REFERENCE NO.: 65:5193d-g

TITLE: Glass fiber product

INVENTOR(S): Tiede, Ralph L.

PATENT ASSIGNEE(S): Owens-Corning Fiberglas Corp.

SOURCE: 5 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

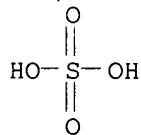
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

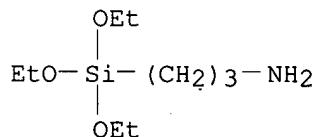
| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|---|--|-----------------|----------|
| US 3253948 | | 19660531 | US | 19620212 |
| AB | CA 48, 4793a; U.S. 2,308,857, CA 37, 38977. | A hardened adhesive coating contg. an aq. phenolic resol and 0.02-2.0% (.gamma.- | | |

aminopropyl)triethoxysilane (I), based on the wt. of the coating, is added to the surface of the glass fibers. The compn. of the glass fibers is SiO₂ 53-62, Al₂O₃ 4-8, CaO 18-22, MgO 5-9, and Na₂O, K₂O, and Li₂O 9-13%. The glass may contain .1toreq.2% B₂O₃, .1toreq.0.5% MnO and TiO₂, and a small amt. (as impurity) of Fe₂O₃. The sum of Al₂O₃ and SiO₂ and the sum of Al₂O₃, SiO₂, and B₂O₃ must be from 59 to 66%. In the preferred compn. the glass contains 19-21% CaO and 6-8% MgO. A phenolic resin is formed from a mol. ratio of HCHO:PhOH of 1.25:1 to 2.5:1 and the application of heat with I at atm. pressure to an infusible, cross-linked condition. For example, fibers were drawn from SiO₂ 53.53, Al₂O₃ 7.94, CaO 20.66, MgO 6.91, (Na₂O, K₂O, and Li₂O) 10.99, MnO 0.24, TiO₂ 0.12, and Fe₂O₃ 0.21%. A 10% resin solids soln. prep'd. from 180 parts HCHO (37% aq. soln.), 100 parts PhOH, and 4 parts NaOH was applied to the glass fibers with and without the addn. of 0.05% I. The materials were mixed in a vessel, allowed to stand at room temp. (approx. 25.degree.) for 16 hrs., and heated at a progressively increasing temp. which was sufficient to maintain gentle boiling. Heating was discontinued when the reaction mixt. reached 85.degree.. The NaOH was **neutralized** with H₃PO₄ and the **neutralized** resin filtered to remove pptd. Na₃PO₄. The following results were obtained:

NCL 117126000
 CC 21 (Ceramics)
 IT **7664-93-9, Sulfuric acid**
 (glass fiber prespinning treatment with)
 IT **919-30-2, Propylamine, 3-(triethoxysilyl)-**
 (phenol condensation products contg., coating with, on glass fibers)
 IT **7664-93-9, Sulfuric acid**
 (glass fiber prespinning treatment with)
 RN 7664-93-9 HCPLUS
 CN Sulfuric acid (8CI, 9CI) (CA INDEX NAME)



IT **919-30-2, Propylamine, 3-(triethoxysilyl)-**
 (phenol condensation products contg., coating with, on glass fibers)
 RN 919-30-2 HCPLUS
 CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)



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| | | | | |
|-----|--------|--|--|--|
| L1 | STR | | | |
| L2 | 6485 | SEA FILE=REGISTRY SSS FUL L1 | | |
| L3 | 1 | SEA FILE=REGISTRY ABB=ON PLU=ON "SULFURIC ACID"/CN | | |
| L4 | 16488 | SEA FILE=HCAPLUS ABB=ON PLU=ON L2 | | |
| L5 | 113609 | SEA FILE=HCAPLUS ABB=ON PLU=ON L3 OR SULFURIC ACID#/OBI | | |
| L6 | 128 | SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND L5 | | |
| L7 | 92856 | SEA FILE=HCAPLUS ABB=ON PLU=ON NEUTRAL?/OBI | | |
| L8 | 3 | SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND L7 | | |
| L9 | 409259 | SEA FILE=HCAPLUS ABB=ON PLU=ON NEUTRAL?/AB | | |
| L10 | 5 | SEA FILE=HCAPLUS ABB=ON PLU=ON L6 AND L9 | | |
| L11 | 5 | SEA FILE=HCAPLUS ABB=ON PLU=ON L10 OR L8 | | |
| L12 | 81896 | SEA FILE=HCAPLUS ABB=ON PLU=ON SILOXANE/OBI | | |
| L13 | 475 | SEA FILE=HCAPLUS ABB=ON PLU=ON L12 AND L5 | | |
| L14 | 68 | SEA FILE=HCAPLUS ABB=ON PLU=ON L13 AND 62/SX, SC | | |
| L15 | 2 | SEA FILE=HCAPLUS ABB=ON PLU=ON L14 AND (NEUTRAL?/OBI OR NEUTRAL?/AB) | | |
| L16 | 6 | SEA FILE=HCAPLUS ABB=ON PLU=ON L15 OR L11 | | |
| L17 | 776 | SEA FILE=HCAPLUS ABB=ON PLU=ON L12 (L) (NONPOLYMER?/OBI OR NON POLYMER?/OBI) | | |
| L21 | 51 | SEA FILE=HCAPLUS ABB=ON PLU=ON L4 AND L17 | | |
| L22 | 2 | SEA FILE=HCAPLUS ABB=ON PLU=ON L21 AND (NEUTRAL?/OBI OR L5) | | |
| L23 | 1 | SEA FILE=HCAPLUS ABB=ON PLU=ON L22 NOT (L16) | | |

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L23 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS on STN
 ACCESSION NUMBER: 2000:371880 HCAPLUS
 DOCUMENT NUMBER: 132:339026
 TITLE: Hair-styling composition based on organosilicone compounds, slightly or nonpolymerized, water-soluble, and partially **neutralized**
 INVENTOR(S): Samain, Henri; Rollat, Isabelle; Jeanne, Rose Valerie; Sanchez, Clement
 PATENT ASSIGNEE(S): L'Oreal S. A., Fr.
 SOURCE: Fr. Demande, 16 pp.
 CODEN: FRXXBL
 DOCUMENT TYPE: Patent
 LANGUAGE: French
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|-------------------|----------|-----------------|----------|
| FR 2783164 | A1 | 20000317 | FR 1998-11571 | 19980916 |
| PRIORITY APPLN. INFO.: | | | FR 1998-11571 | 19980916 |
| OTHER SOURCE(S): | MARPAT 132:339026 | | | |

AB An aq. cosmetic compn. contains an organosilicone partially neutralized. A soln. of aminopropyltriethoxysilane 12, HCl 0.25, and water q.s. 100 g was prep'd. The compn. produced good quality curls.
 IC ICM A61K007-06
 CC 62-3 (Essential Oils and Cosmetics)
 IT Carboxylic acids, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (dicarboxylic; hair-styling compn. based on organosilicone compds., slightly or nonpolymd., water-sol., and partially **neutralized**)
 IT Carboxylic acids, reactions

Siloxanes (nonpolymeric)

RL: RCT (Reactant); RACT (Reactant or reagent)
(hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

IT Acids, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(org.; hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

IT Hair preparations
(permanent wave; hair-styling compn. based on organosilicone compds.,
slightly or nonpolymd., water-sol., and partially **neutralized**)

)

IT Carboxylic acids, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(tricarboxylic acids; hair-styling compn. based on organosilicone
compds., slightly or nonpolymd., water-sol., and partially
neutralized)

IT 919-30-2
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

IT 7647-01-0, Hydrochloric acid, reactions 7697-37-2, Nitric acid,
reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

IT 919-30-2
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(hair-styling compn. based on organosilicone compds., slightly or
nonpolymd., water-sol., and partially **neutralized**)

RN 919-30-2 HCPLUS

CN 1-Propanamine, 3-(triethoxysilyl)- (9CI) (CA INDEX NAME)

